بسمه تعالی

دانشگاه علوم پزشکی و خدمات بهداشت و درمان استان فارس

مرکز آموزشی درمانی شهید دکتر فقیهی

واحد مهندسی پزشکی

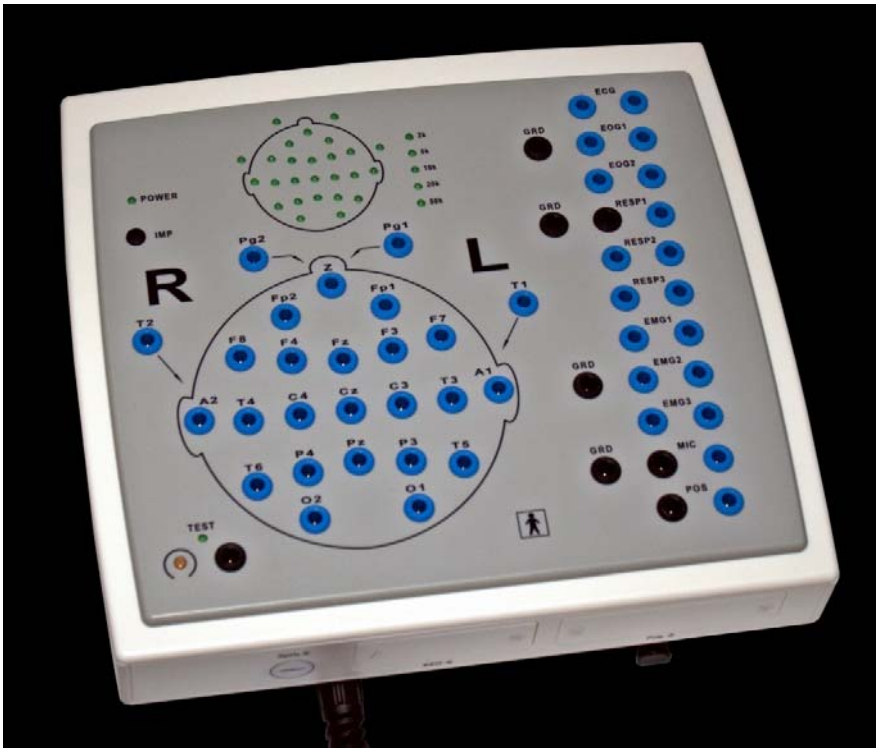
91-92

فهرست **صفحه**

دستگاه نوار مغز NEUROWERK 3

.

دستگاه نوار مغز



Introduction

When compiling this User Manual, particular importance was attached to a clear and readily understandable description of the individual applications.

The User Manual is intended to enable effective use of the NEUROWERK system and of the application possibilities it offers.

The User Manual is an integral part of the measuring system. It should always be kept in the immediate vicinity of the system. Careful adherence to the User Manual is imperative, as a condition for proper use and correct handling of the measuring system.

The manufacturer reserves the right to implement modifications for technical improvement of the system without prior notice.

Please read this User Manual carefully before you install and start up the system. The system must only be used by persons whose training, knowledge and practical experience constitute a guarantee for proper handling; these persons must have been instructed accordingly on proper handling of the system in accordance with the contents of this User Manual. Such instruction must only be given by persons who, by way of their knowledge and practical experience, are suitably qualified to provide instruction on the handling of the system.

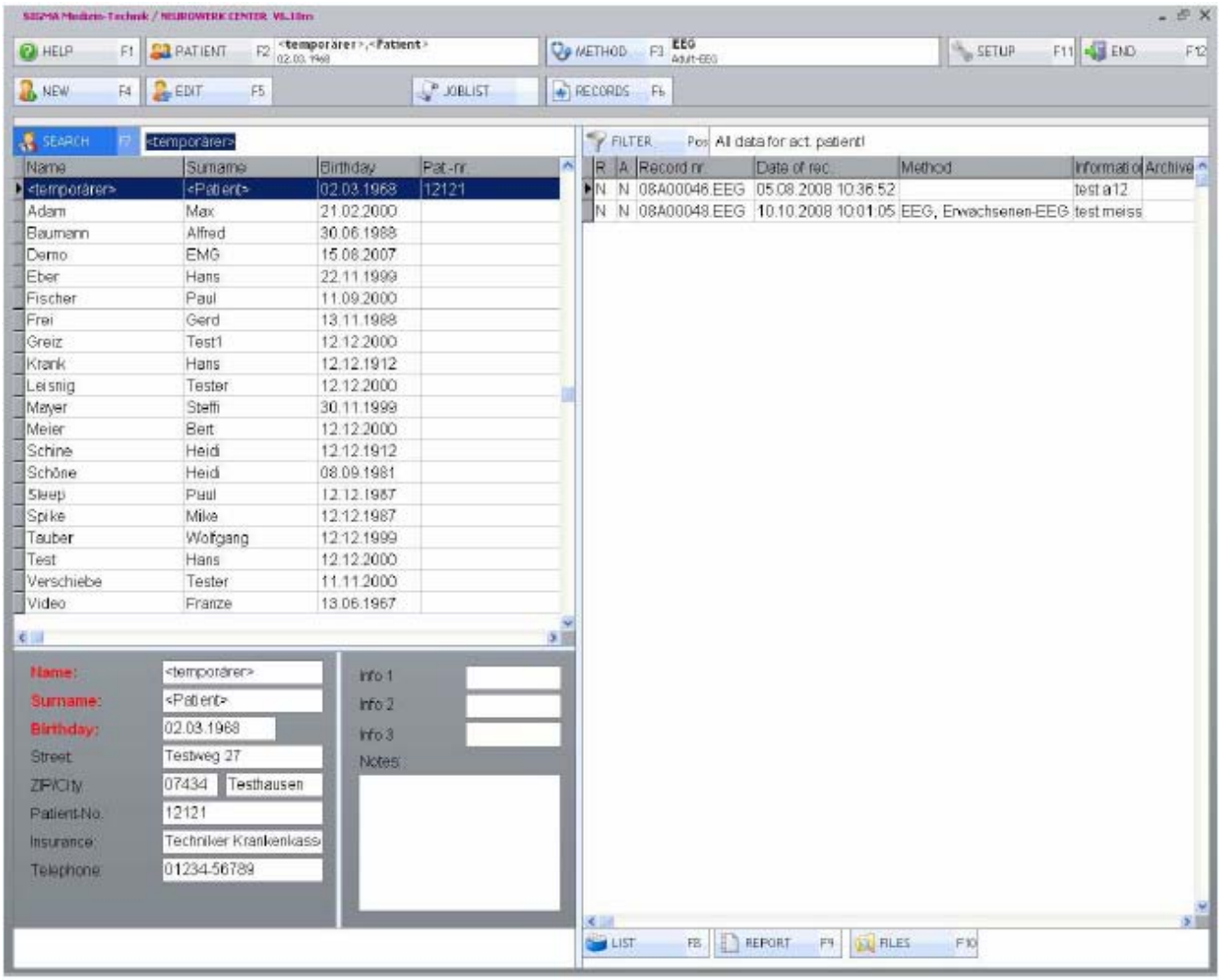
Exact examination results and safe, trouble-free operation are only guaranteed if the system is operated in accordance with the Instruction Manual.

Description of the NEUROWERK CENTER

Turning on the isolating transformer (green switch on the instrument trolley) connects the operating voltage for the measuring system.

After the processor unit (PC) and the monitor have been turned on, all internal settings are made automatically, and the NEUROWERK CENTER will appear on the WINDOWS user interface.

Both NEUROWERK EEG and NEUROWERK EMG are started from the NEUROWERK CENTER.



Operator controls		
Key	Designation	Description
F1	HELP	Displays the NEUROWERK CENTER Operator's Guide
F2	PATIENT	Displays the currently selected patient
F3	METHOD	Selection of a measuring method
F4	NEW	Creation of a new patient
F5	CHANGE	Editing of patient data
F6	EVALUATE	Displays the existing tracings
F7	FIND	Branches to the "Find patient" input field
F8	LIST	Displays a list of tracings for a selected patient

F9	REPORT	Displays the report for a selected tracing
F10	FILES	Selection of a directory with tracings
F11	SETUP	Configuration of the NEUROWERK CENTER
F12	EXIT	Closes the program
	DELETE	Only unhidden if still no tracing has yet been performed for the patient
	JOB LIST	Displays jobs which have been transferred from the surgery system via GDT
	HL7	Optional; to import of patient data from the HMIS

Memory monitoring

When the NEUROWERK CENTER is started, the memory capacity is checked.
Once a certain limit value is reached, the status is displayed by way of traffic-light-style symbols on the screen.

EEG - Archiving urgently necessary

EMG - No archiving necessary

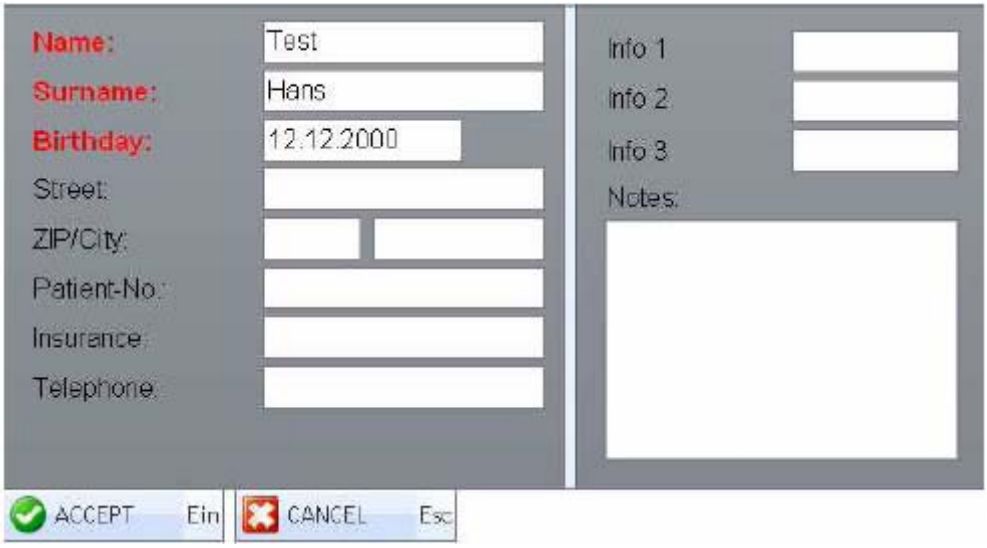
Server - Memory capacity sufficient (otherwise: relocate data or expand memory)

Patient data

Patient data are included and changed exclusively in the NEUROWERK CENTER.
If you click on **[PATIENT F2]**, you will return from any examination back to the NEUROWERK CENTER.

Create new patient

Clicking on **[NEW F4]** enables you to enter a patient in the database.



Entering of the data always starts with the name. To switch to the next field, use the TAB key or click directly on the appropriate field.

The data fields highlighted red ("Last name", "First name", "Date of birth") are mandatory. The date of birth is to be specified without spaces, dots or dashes. The year must be entered with 4 digits.
Clicking on **[ACCEPT Insert]** accepts your input. You are then asked to confirm the data once more.

The data are only saved if you respond to the confirmation query by clicking on **[Yes]** or **by** pressing **[Enter]**.

Find patient data

If you click on **[FIND F7]**, the system expects the input of a name.

As soon as you enter the initial letter of a patient, the first patient starting with the this letter is displayed. The search becomes more selective with each further letter.

Change patient data

Incorrect or incomplete patient data can be changed with **[CHANGE F5]**.

The new data are accepted by clicking on **[ACCEPT Insert]**.

If you click on **[CANCEL Esc]**, a confirmation warning is nevertheless displayed.

Delete patient

It is possible to delete a patient at any time provided no tracing has yet been stored for this patient.

To this end, select the patient in the list and click on **[DELETE]**.

This function is additionally password-protected. The password can be requested from the SIGMA Medizin-Technik service team.

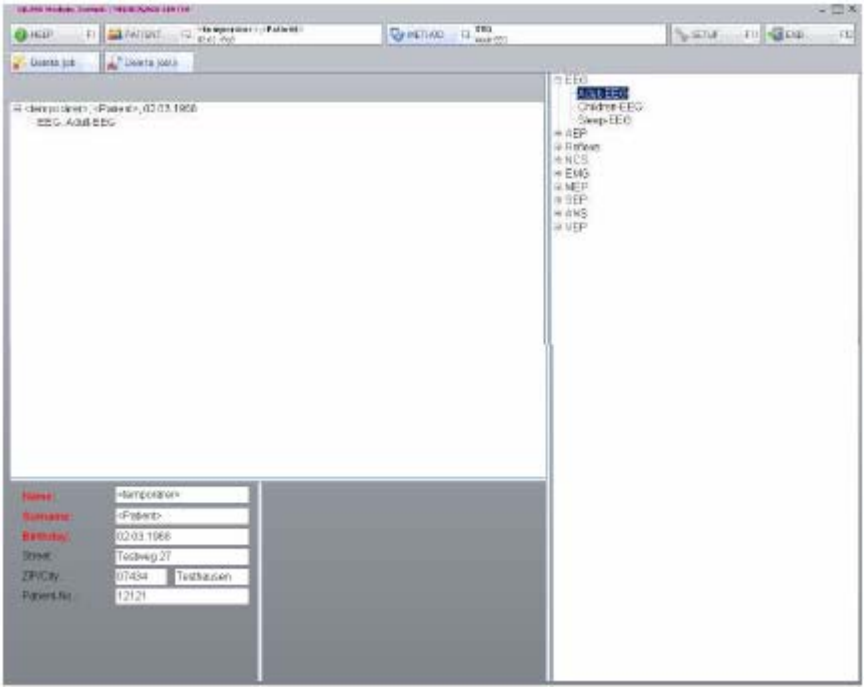
GDT interface

Patients can be imported into the patient data from a surgery system via a GDT interface; this function is an option.

These patient data are displayed in the **[JOB LIST].**

The patient is selected in the surgery system. The EEG or EMG tracing is started from there.

In the NEUROWERK database, the patient is called automatically, and all values are entered in the database.



After saving of the EEG or EMG examination, the EEG number or the EMG measured values are transferred to the surgery system.

HL7 interface

Patients can be imported into the patient data from a hospital management information system (HMIS) via a HL7 interface; this function is an option.

The HMIS data are acquired and processed automatically in the background by way of the SIGMA Medizin-Technik HL7 server.

Clicking on the HL7 button opens the converted HL7 database.

KIS Patienten 1.1.0.3

Pat-Nummer: 00000020

14 Patienten

Name	Vorname	Pat-Nummer	Fall-Nummer	Sex	GebDat	Ort	Strasse	Telefon
Tester00000...	A_00000001	00000001	11000001	F	03.02.1934	Langewiesen	Am Park 2b	007/00000001
Tester00000...	F_00000006	00000006	11000006	F	06.05.1960	Langewiesen	Am Park 2b	007/00000006
Tester00000...	H_00000008	00000008	11000008	F	26.06.1915	Langewiesen	Am Park 2b	007/00000008
Tester00000...	T_00000020	00000020	11000020	F	22.09.1994	Langewiesen	Am Park 2b	007/00000020
Tester00000...	J_00000010	GJB00000010	20081015...	F	29.07.1986	Langewiesen	Am Park 2b	007/00000010
Tester00000...	K_00000011	GJB00000011	20081015...	F	29.07.1986	Langewiesen	Am Park 2b	007/00000011
Tester00000...	L_00000012	GJB00000012	20081015...	F	29.07.1986	Langewiesen	Am Park 2b	007/00000012
Tester00000...	M_00000013	GJB00000013	20081015...	F	29.07.1986	Langewiesen	Am Park 2b	007/00000013
Tester00000...	N_00000014	GJB00000014	20081015...	F	29.07.1986	Langewiesen	Am Park 2b	007/00000014
Tester00000...	O_00000015	GJB00000015	20081015...	F	29.07.1986	Langewiesen	Am Park 2b	007/00000015
Tester00000...	P_00000016	GJB00000016	20081015...	F	29.07.1986	Langewiesen	Am Park 2b	007/00000016
ZTester0000...	Q_00000017	GJB00000017	20081015...	F	29.07.1986	Langewiesen	Am Park 2b	007/00000017
Tester00000...	R_00000018	GJB00000018	20081015...	F	29.07.1986	Langewiesen	Am Park 2b	007/00000018
Tester00000...	S_00000019	GJB00000019	20081015...	F	29.07.1986	Langewiesen	Am Park 2b	007/00000019

The search term is entered in the upper field. Depending on which field is selected (red tick), patients can be selected by last name, first name, patient number, ...

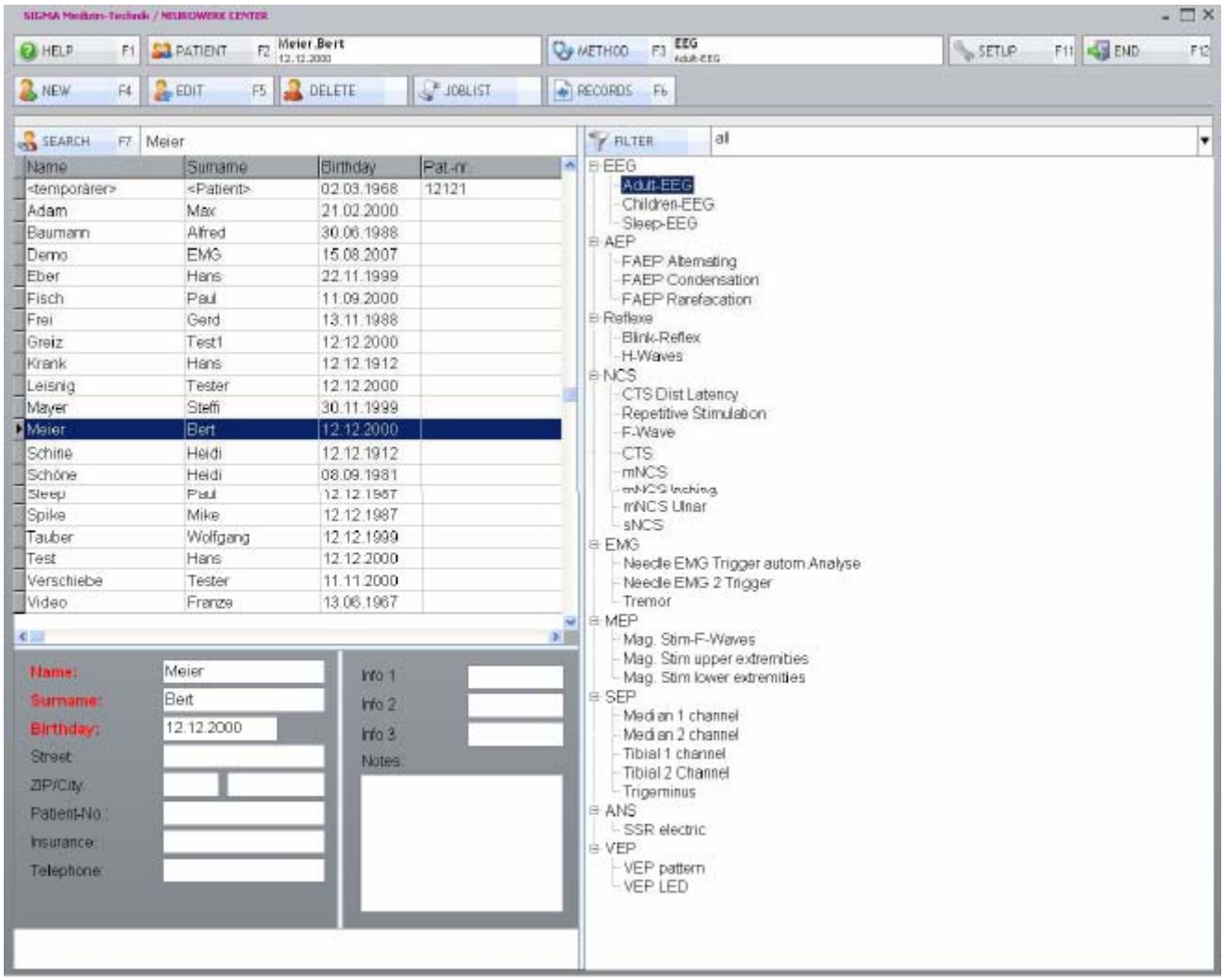
The patient is accepted into the NEUROWERK database with a double-click.

Acquiring tracings

Tracings are records of bioelectrical potentials. Various methods can be used for recording.

To start a tracing, first select a patient (see B.2.1 Create new patient or B.2.2 Find patient data).

After you have created/selected a patient, click on **[METHOD]** or press **[F3]** to open the "Method selection" window.

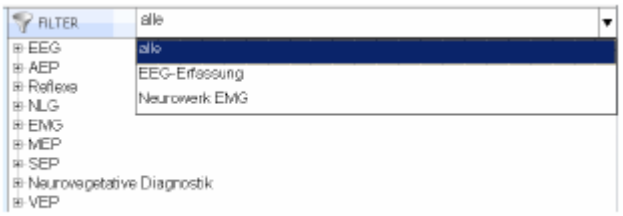


The different methods which can be selected depend on the configuration of your NEUROWERK system.

Select a method (EEG, AEP, NLG, ...) with a left-click in the "Method selection" window. Then start the desired program with a double-click.

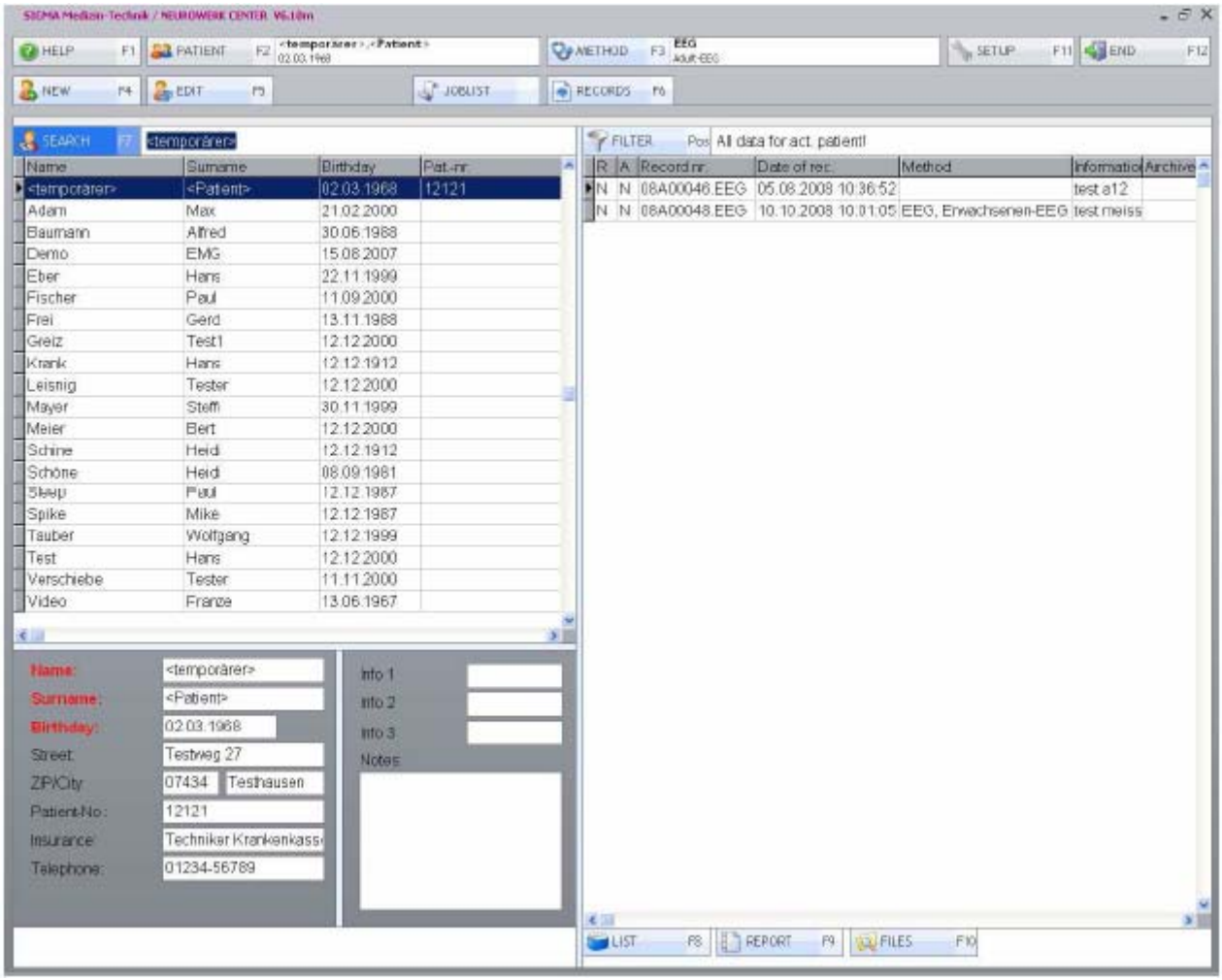
From the tracing programs, it is always possible to return to the NEUROWERK CENTER by clicking on **[PATIENT F2]** or **[EXIT F12]**.

The selection of the methods can be limited to EEG or EMG in the FILTER window.



Evaluating tracings

Clicking on **[EVALUATE F6]** opens the "Tracing" window.



To start an evaluation, select the desired patient either by clicking on **[FIND F7]** or by scrolling in the patient list.

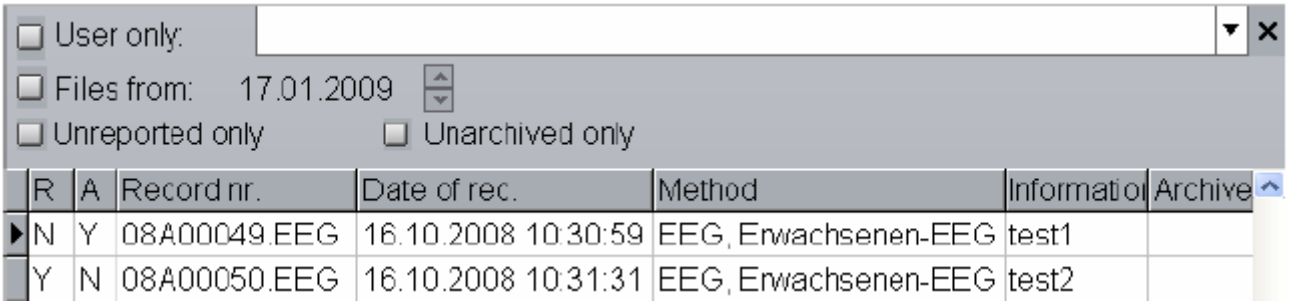
All tracings for the selected patient are displayed.

Right-clicking on a tracing number immediately displays all information for this tracing. As an option, it is also possible to start an HRV analysis.

Double-clicking on the tracing number opens the appropriate evaluation program.

Tracing attributes

The table beneath FILTER displays the attributes for each individual tracing.



R	A	Record nr.	Date of rec.	Method	Informatio	Archive
N	Y	08A00049.EEG	16.10.2008 10:30:59	EEG, Erwachsenen-EEG	test1	
Y	N	08A00050.EEG	16.10.2008 10:31:31	EEG, Erwachsenen-EEG	test2	

R - Report already created - Y / N (Y = Yes / N = No)

A - Tracing was evaluated and can be archived - Y / N

No. - Number of examination

EEG 1st and 2nd digits - Year

3rd digit - Code letter

4th to 8th digits - Consecutive number

EMG 1st digit - Code letter

2nd and 3rd digits - Year

4th and 5th digits - Month

6th and 7th digits - Day

8th to 13th digits - Time

Tracing date - Date of examination

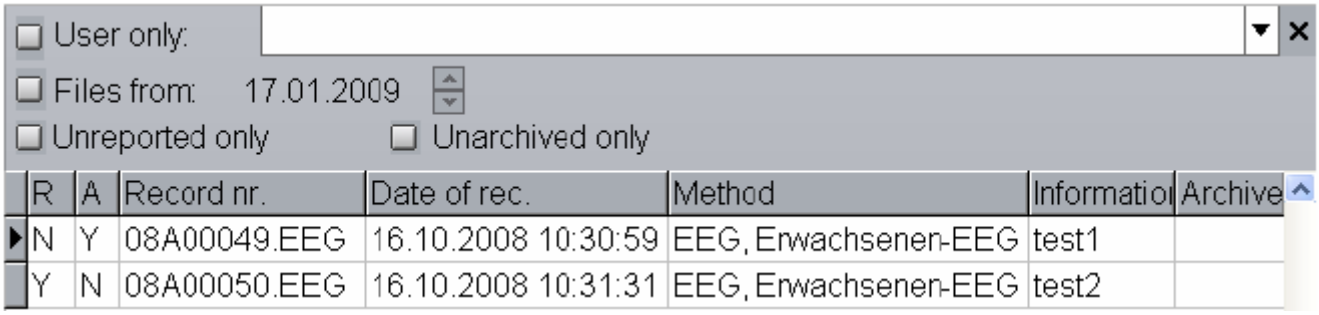
Method - Displays the method and program

Information - Information on the tracing

Archive no. - Number of the archive CD / DVD

Filter

If you click on **[FILTER F6]**, you can filter the tracings according to certain criteria.


User only:
Files from: 17.01.2009
Unreported only
Unarchived only
R A Record nr. Date of rec. Method Informatio Archive
N Y 08A00049.EEG 16.10.2008 10:30:59 EEG, Erwachsenen-EEG test1
Y N 08A00050.EEG 16.10.2008 10:31:31 EEG, Erwachsenen-EEG test2

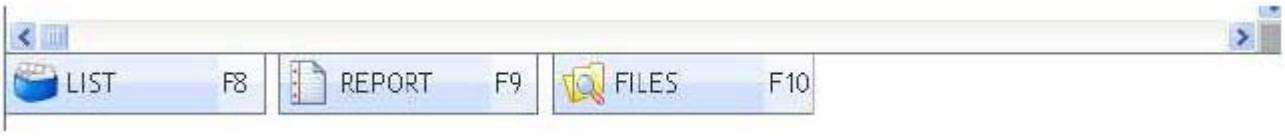
User – Selection of a user (displays the tracings assigned to the corresponding user)

Date - Displays all tracings from the selected date

Unreported only - Displays the tracings with an "N" in column "R"

Unarchived only - Displays the tracings with an "N" in column "A"

Display tracings



[LIST F8] displays all tracings for the selected patient.

Display reports directly

If a report has already been created for a tracing, it is possible to open this report directly. To do so, highlight a tracing and click on **[FINDING F9]** to display the report directly.

Display tracings without database

If particular tracings (e.g. external EEGs) are not entered in the database, they can be opened from any external source by clicking on **[FILES F10]**.

Closing NEUROWERK CENTER

Clicking on **[x]** closes the NEUROWERK CENTER immediately.
Clicking on **[EXIT F12]** opens the window for supplementary programs.

Clicking on **[HELP F1]** opens the NEUROWERK CENTER online help.

Clicking on **[PATIENT F2]** reopens the NEUROWERK CENTER.

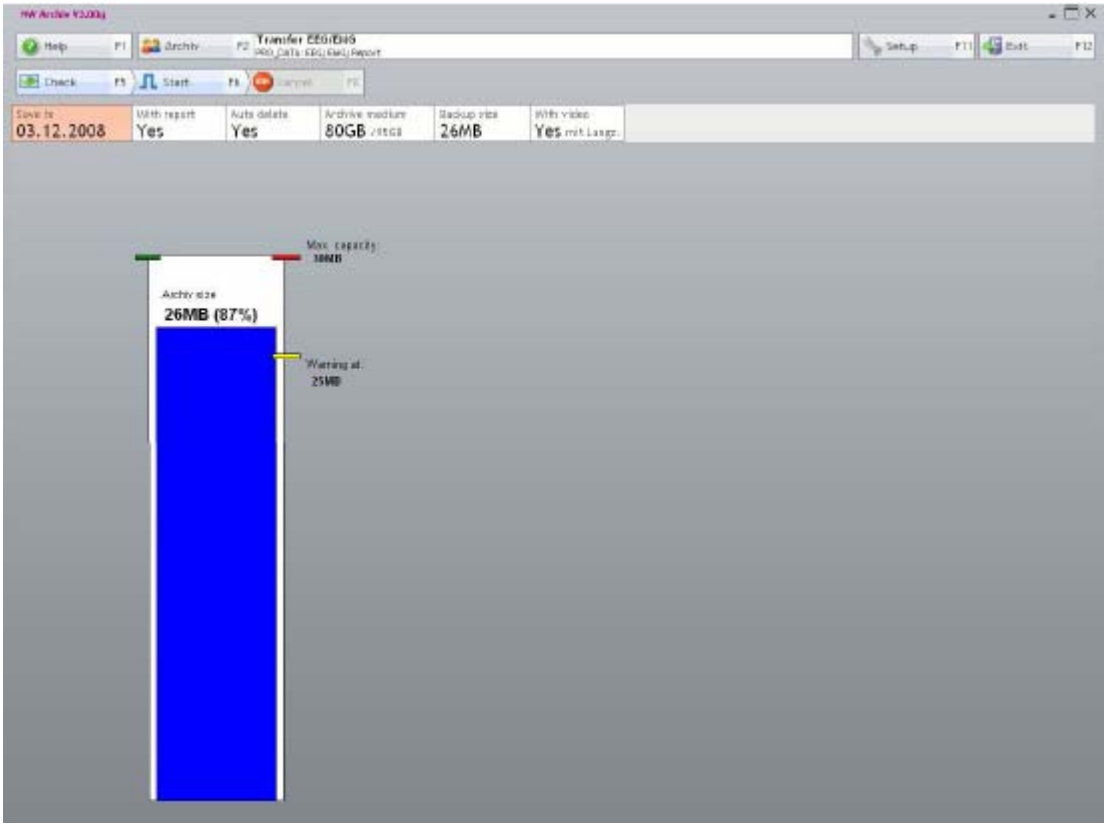
If you click on **[SETUP F11]**, you can enter basic settings in the NEUROWERK CENTER.

Clicking on **[EXIT F12]** closes everything.

Data transfer

With the NEUROWERK systems, you can also record tracings locally (without networking).

It is then possible to transfer data back to the central database.
Click on **[EXIT]** in the NEUROWERK CENTER. This opens the window for supplementary programs.



With **[Start F6]**, all files are copied to an intermediate archive.

Clicking on **[Exit F12]** displays the administration window.

If you click on **[Patient F2]**, you will return to the NEUROWERK CENTER, and all data are accepted.

Management of the second line

The spare parts catalog and service information can be called in the second line.

Various supplementary programs can also be started, depending on the selected method (list box on the right).

EEG	Archiving **[A]** Archiving of the EEG data
	EEG Manual **[D]** NEUROWERK EEG Operator's Guide
	Scheduler **[C]** EEG cropping program
	Export **[E]** Export of EEGs by way of viewer software
	Montedit **[M]** EEG montage editor
	Update **[U]** Loads the latest software updates
EMG	Archiving **[A]** Archiving of the EMG data
	Operator's Guide **[C]** NEUROWERK EMG Operator's Guide

Archiving

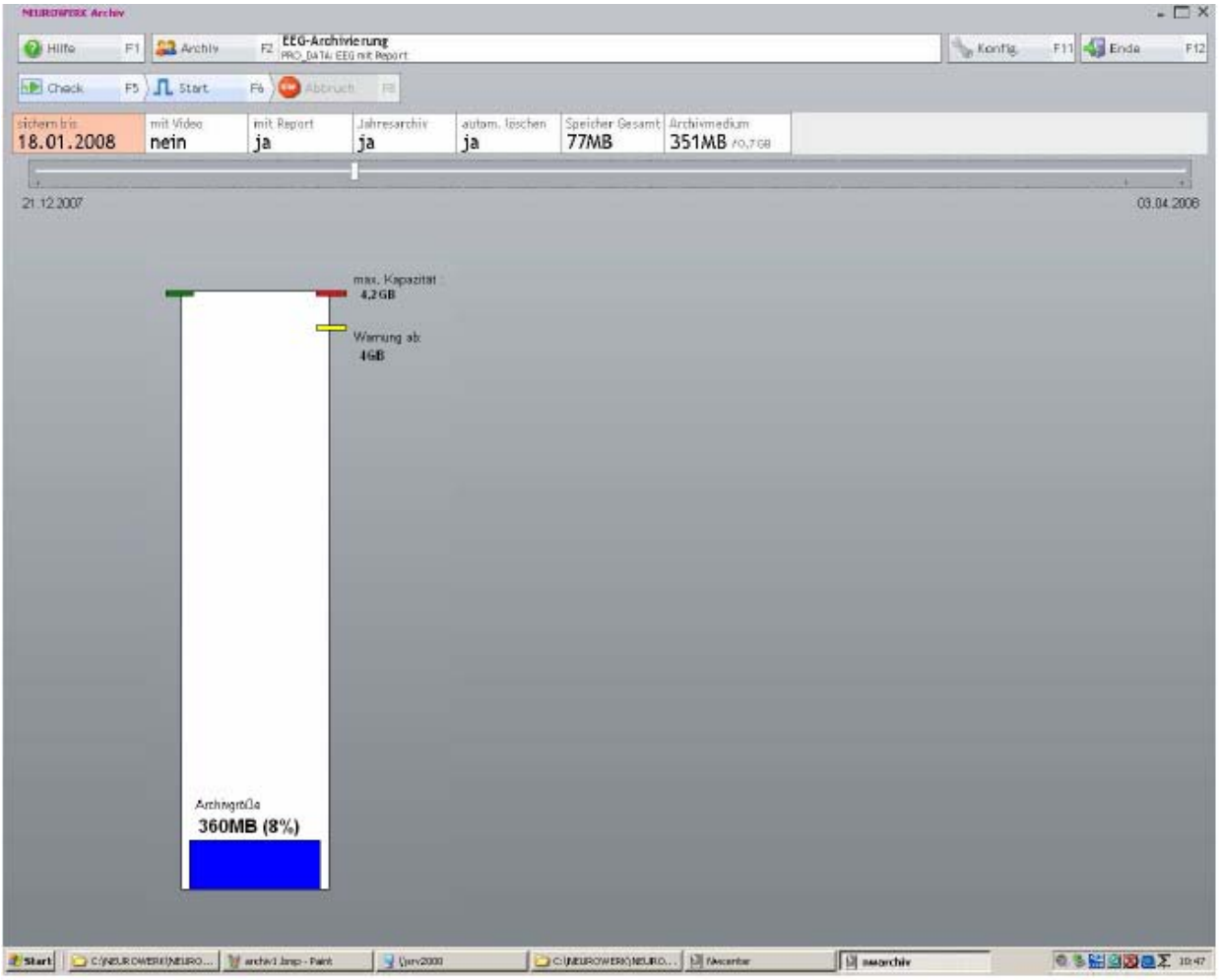
Archiving of the data is necessary if the appropriate status is displayed by the trafficlight-style symbols when the NEUROWERK CENTER is started.
The "Archiving" menu is opened by clicking on **[Exit F12]** in the NEUROWERK CENTER.

A mouse click in the list on the right selects whether EEG or EMG data are to be archived.

Clicking on **[Archiving A]** starts the program.

Now insert the archive medium (DVD-R).

If you click on **[Check F5]**, the memory status is displayed.



You can now select whether you want to perform the archiving with video and report files. The saving of all data in the annual archive can be deselected. Clicking on "Yes" in the "Delete automatically" field deletes all data after archiving.

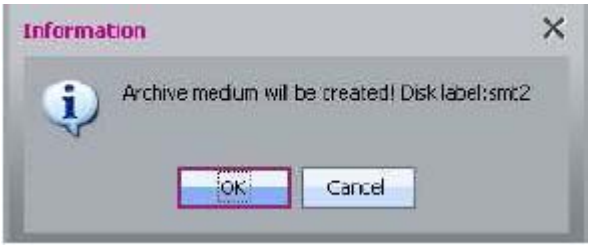
The volume of all data to be saved is displayed in the "Total memory" field. The data volume can be specified according to the tracing date by way of the slider. Right-click on the slider to move it to the right or left. The remaining capacity of the archive medium is displayed in the lower bar diagram.

Yellow mark Archiving economical from here

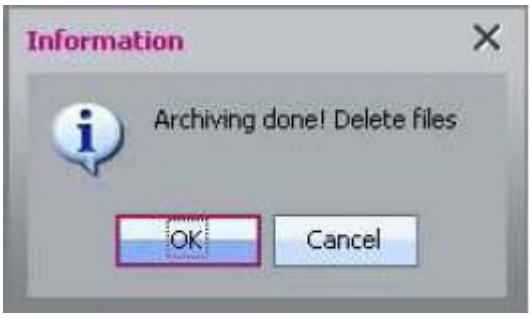
Red mark Maximum memory capacity reached - no more files can be archived

Green mark Medium memory capacity reached (limit value applies to a DVD or CD)

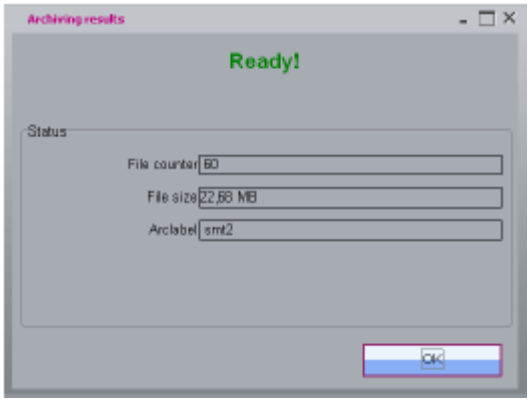
Clicking on **[Start F6]** creates an archiving medium with the specified archive number.



If all data are transferred to the target medium, you are asked whether you want to delete the original data.



In that case, all data of the server drive are compared once more with the data on the DVD / CD and - if identical - deleted from the server.



Finalise the DVD / CD, protect it against overwriting, and eject.

Drag-to-Disc Eject Options
Drag-to-Disc
How would you like Drag-to-Disc to prepare this disc for future use?
This disc will be used on this computer only.
This disc will be used on other computers or devices.
Protect disc so that it cannot be written to again
Always show this dialog when ejecting a disc
Eject
Advanced
Cancel
Help

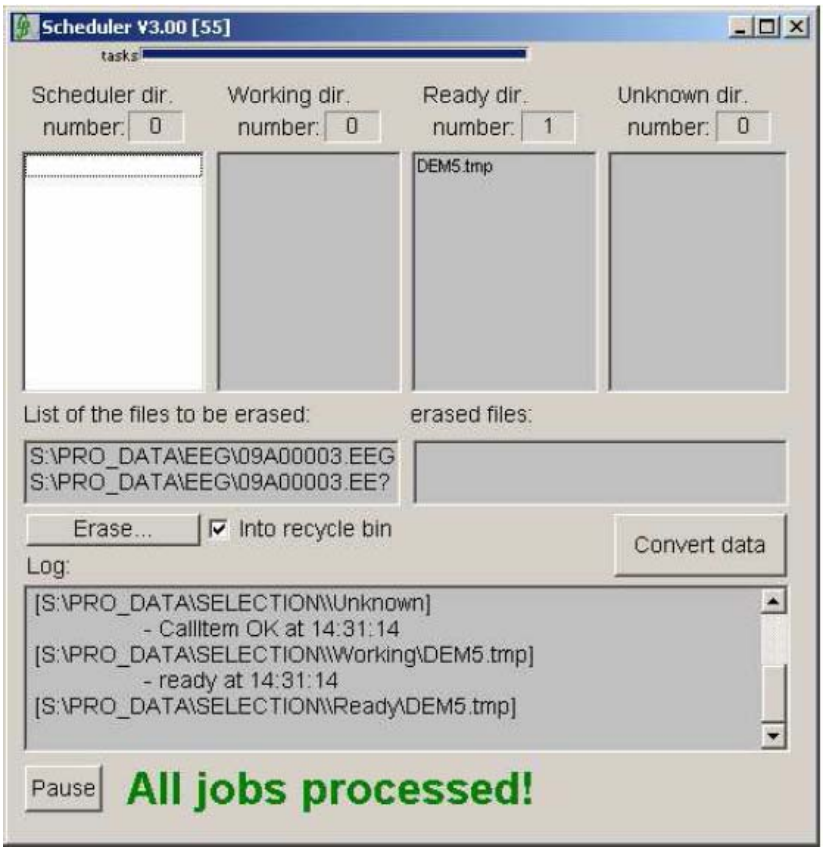
Label the medium with the specified name.

Scheduler

If a selection was saved in the "EEG Evaluation", the **SCHEDULER** program must be started at the end of the evaluation.

This program creates a new EEG file from the selection,
e.g. an EEG crop with number "00A00025K001.eeg" is created on the basis of the EEG with number "00A00025.eeg" and assigned to the same patient in the database.
In addition, the video files belonging to the EEG are cropped.

This data reduction can be used to select shorter relevant sequences from long-term EEGs or video-EEGs, for example.



When you start the "Scheduler", all jobs are cropped and new EEG files are created.
The processing can be stopped by clicking on the **[Pause]** button.

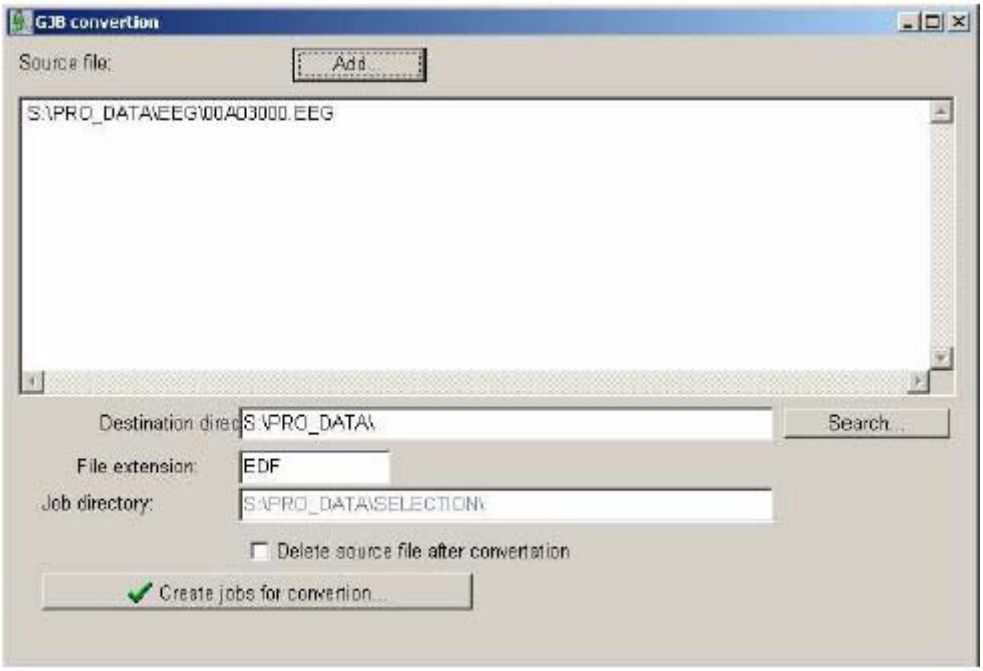
The cropping jobs are to be found in the "Scheduler" folder. Once all jobs have been processed successfully, the jobs are moved to the "Ready" folder, and the program can be quit with **[x]**.

If deletion of the original data was selected in the evaluation, the deletion must also be confirmed in the "Scheduler".

Converting measurement data

EEGs can be converted into the EDF format by clicking on **[Convert measurement**

data].

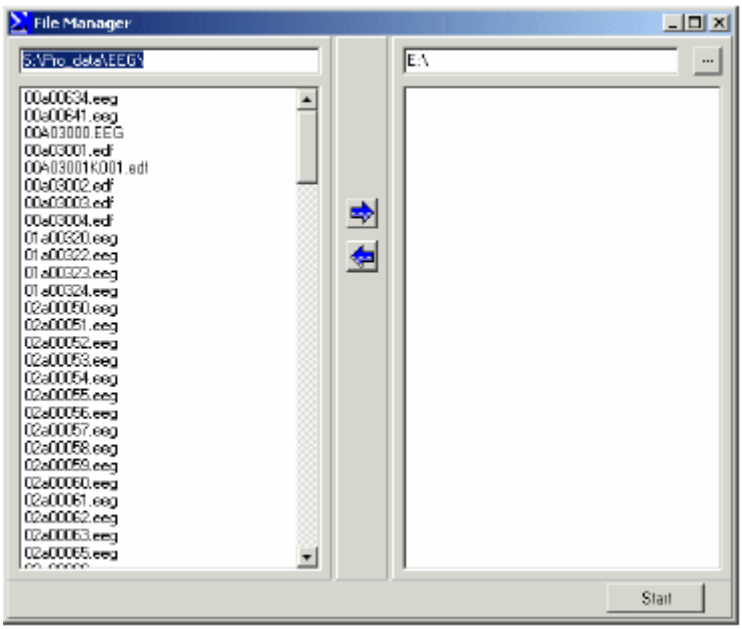


One or several EEG files can be selected by clicking on **[Add]**.

If you click on **[Create jobs for conversion]**, the data are transferred to the "Scheduler" and converted to the EDF format.

Export

This program can be used to transfer selected EEGs and a viewer (evaluation) to a CD, a chosen directory or to other PCs.



The path for the saving of selected EEGs and the viewer can be defined with **[...]** in the top-right corner.

Highlight the desired EEG by left-clicking and move it to the right-hand column by clicking on the arrow button.

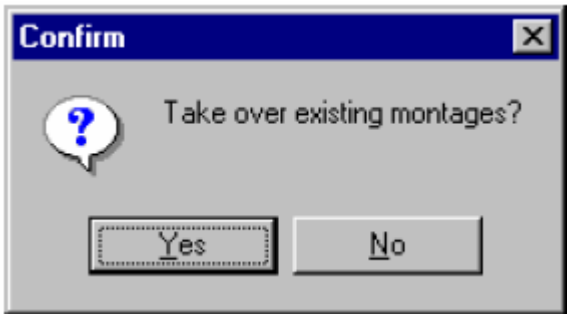
Once all the required EEGs have been moved to the field on the right, click **[Start]** to start the transfer.

The ready-to-use viewer CD can then be started on any PC and the EEGs can be provided with reports.

Clicking on **[Update]** installs the new software.
(A backup of the old version is made after the update [Date].)

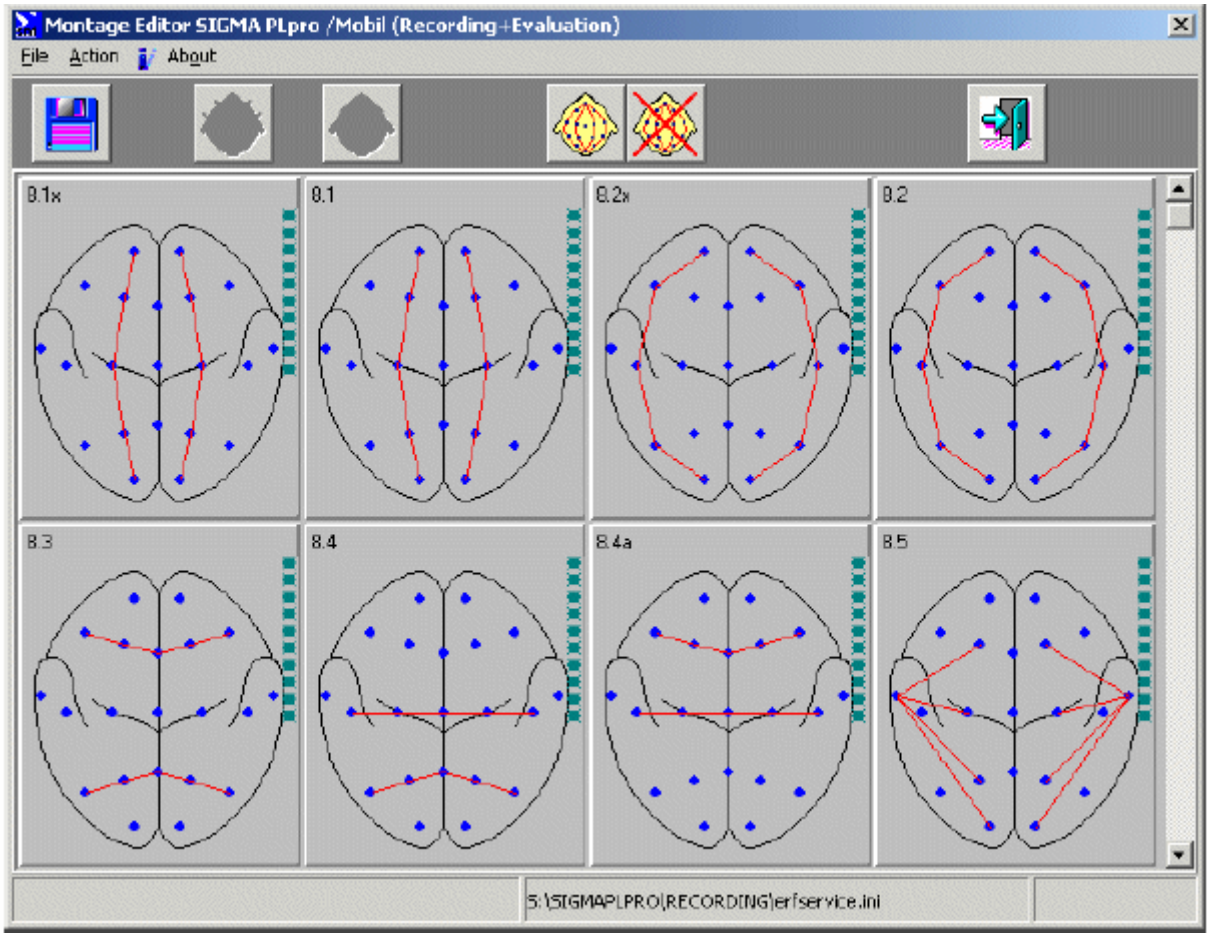
Montage editor

When you start the program, you are first asked whether the existing montages are to be taken over.



If you answer "Yes", all existing montages are accepted.
You can then modify these montages or add further montages.

CAUTION:
If you answer "No", you can subsequently create new montages.
Saving these montages will overwrite / delete all previous montages.



All previously created montages are displayed. The montage editor is handled via the buttons at the top of the program window. These buttons have the following meanings:

Create a new montage

Delete an existing montage

Create a new electrode definition
(only for customer service, Þ password-protected)

Create a new primary montage (only for DB25-2)

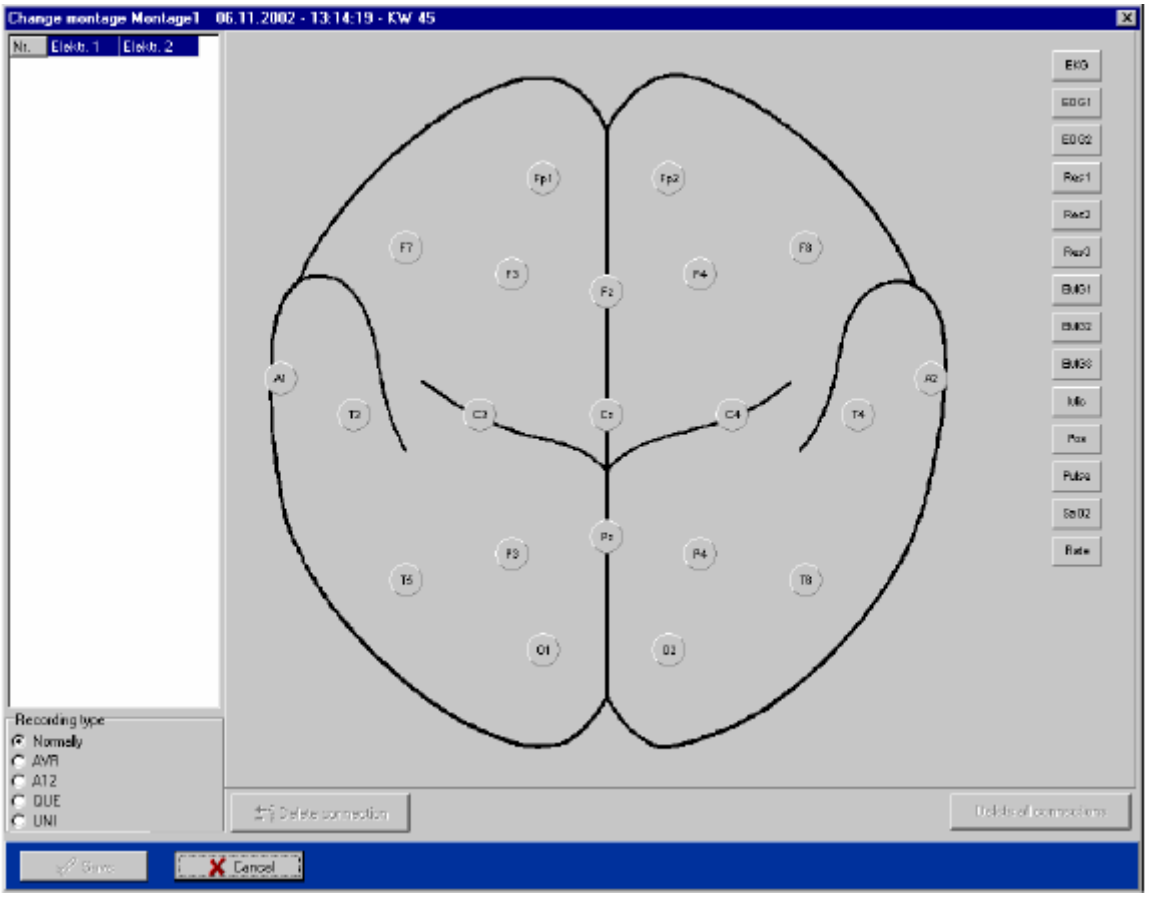
Save the montages

Quit the program

Creating a new montage

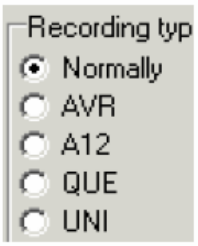
Click with the left mouse button on the "Create a new montage" icon to add a new montage to your system. You must first assign a name to the new montage. This name will then be displayed in the selection lists of the EEG recording and evaluation software (e.g. Montage 1).

When you confirm with OK, the following window is displayed with an empty electrode layout:



You must now decide which recording type is to be used. You can choose between:

Bipolar interconnection	Normal
Averaged reference	AVR
Linked ears	A12
Source	QUE
Unipolar	UNI



Bipolar interconnection

Add the individual channels by clicking on the first electrode in the electrode layout and then on a second electrode. The interconnection is transferred to the table are indicated by a red line between the selected electrodes. The spot at the end of the line symbolises the direction of the interconnection.
When channels are added, they are initially added at the bottom of the table. If a channel is to be moved to a different position, click in the grey field with the channel designation. Hold the mouse button pressed and drag the channel to the desired position.
The polygraphic channels (ECG, RESP, EOG1 and EOG2) are inserted by clicking on the electrodes.
To remove a channel, click in the grey field in front of the channel designation to activate the channel concerned. Then click on the button "Delete connection".

This function is also performed if both electrodes of the interconnection are clicked on again.
The button "Delete all connections" permits you to remove all interconnections.

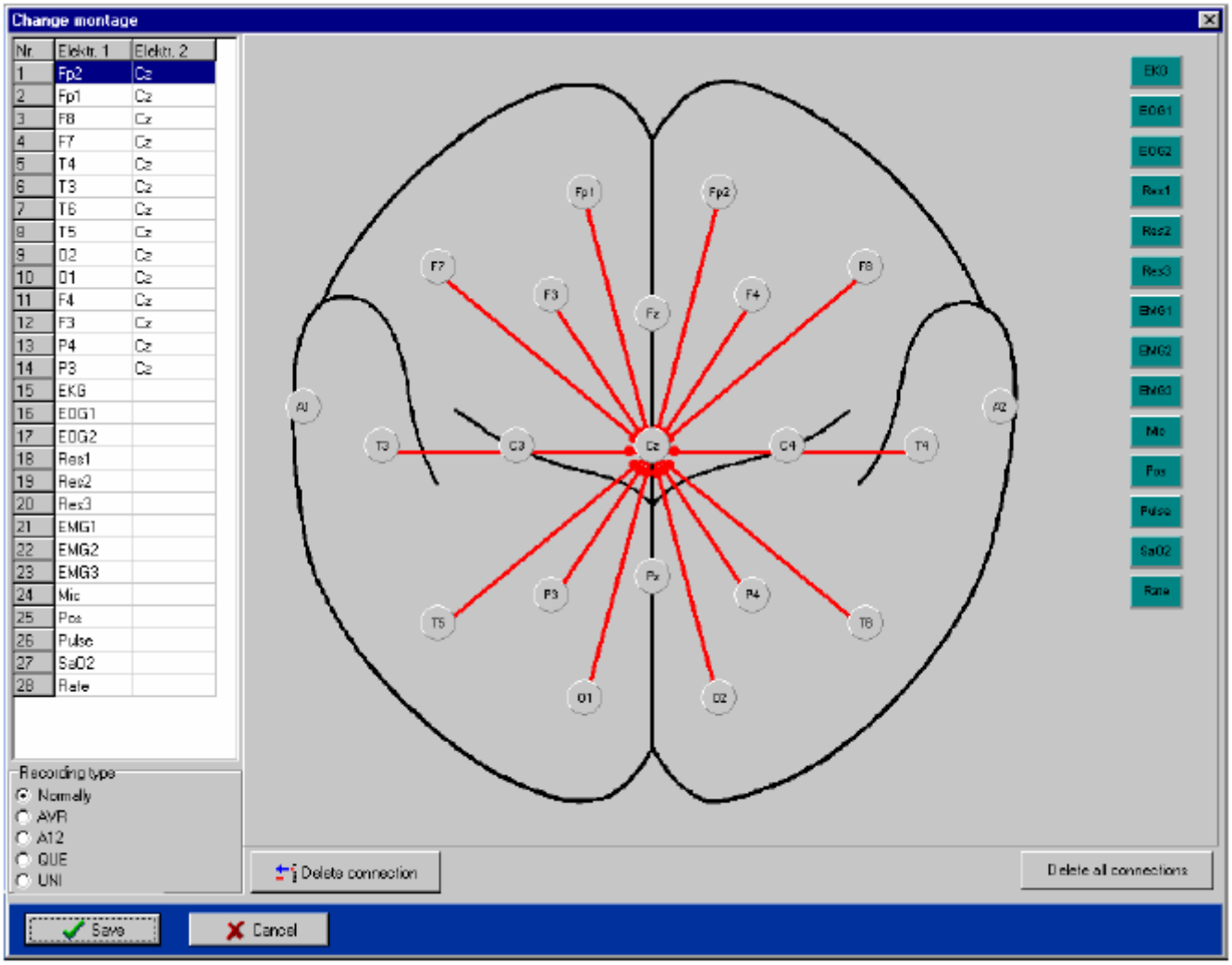
Click on the button "Accept" to save your changes.

Averaged reference, Linked ears, Source and Unipolar

Click on a channel to be added to the montage. The system comp
letes the second
entry in the table (AVR, A12, QUE or UNI) automatically.
All other functions are analogous to those under Bipolar interconnection.

Editing montages

If you wish to modify an existing montage, double-click on the corresponding layout.
A window is opened in which you can add or delete channels.



To add a channel, click on the first electrode in the electrode layout and then on a second electrode. The interconnection is transferred to the table are indicated by a red line between the selected electrodes. When channels are added, they are initially added at the bottom of the table. If a channel is to be moved to a different position, click in the grey field with the channel designation. Hold the mouse button pressed and drag the channel to the desired position.

To remove a channel, click in the grey field in front of the channel designation to activate the channel concerned. Then click on the button "Delete connection".

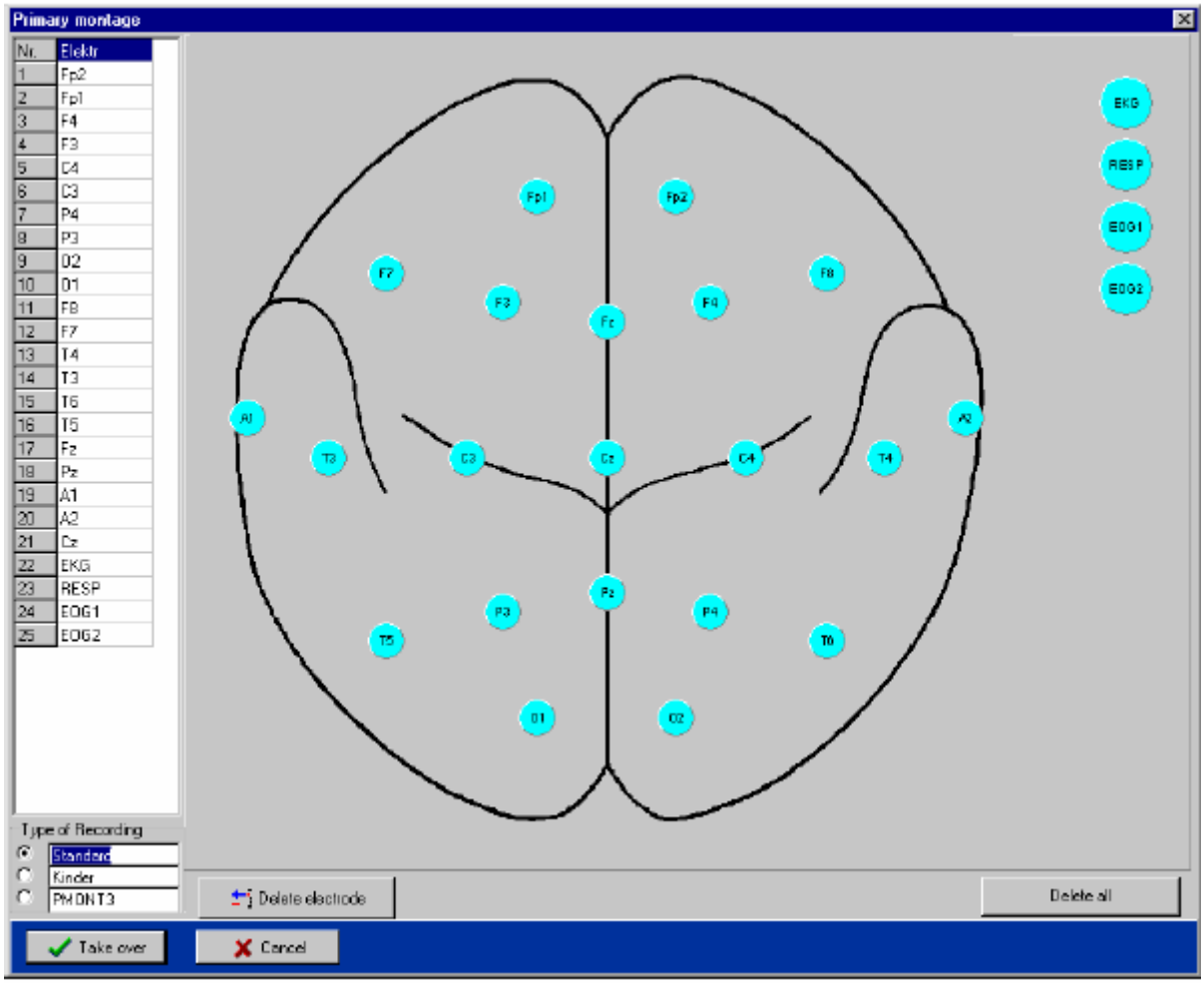
Click on the button "Accept" to save your changes.

Click with the left mouse button on the button "Save" to accept all changes to your EEG system.

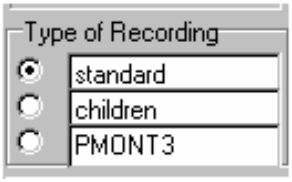
Creating a new primary montage

CAUTION: This setting is applicable only for DB25-2.
For DB36, new primary montages are created via SET in the recording program.

Click with the left mouse button on the "Create a new primary montage" icon to create a new primary montage for your system or to edit an existing primary montage.



First select the primary montage to be created or edited and enter the corresponding name.



All electrodes contained in this primary montage are listed in the table and indicated with coloured markings in the electrode layout.

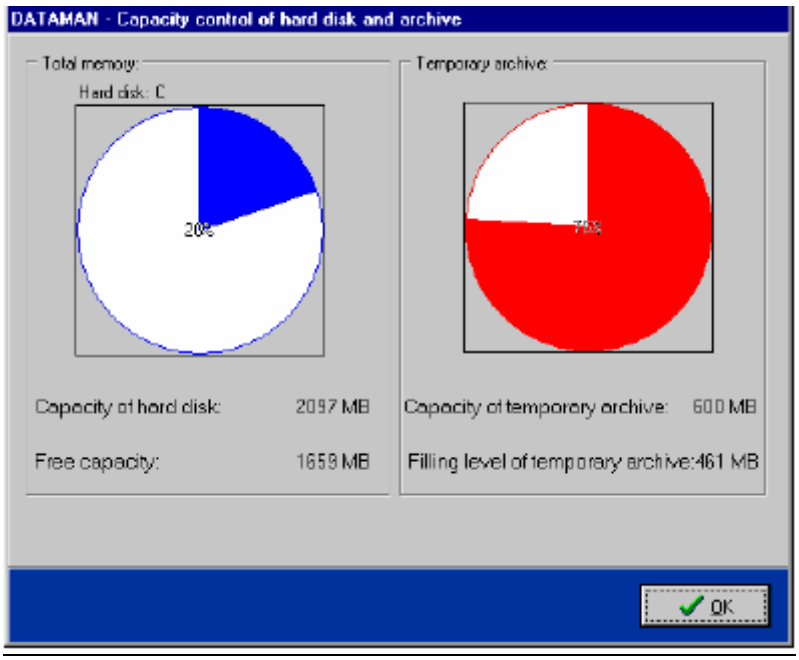
To delete an electrode, click on the corresponding coloured electrode in the electrode layout. The selected element is deleted from the table and is now displayed grey.

Proceed in a similar manner to add an electrode to the primary montage, by clicking on an electrode with is not yet displayed in colour.

Click on the Accept button to save the changes.

Short user manual EEG archiving

The SIGMA Plpro EEG is supervising the capacity of the hard disc and the intermediate archive automatically. If the following message is shown, you should start the archiving procedure as soon as possible.

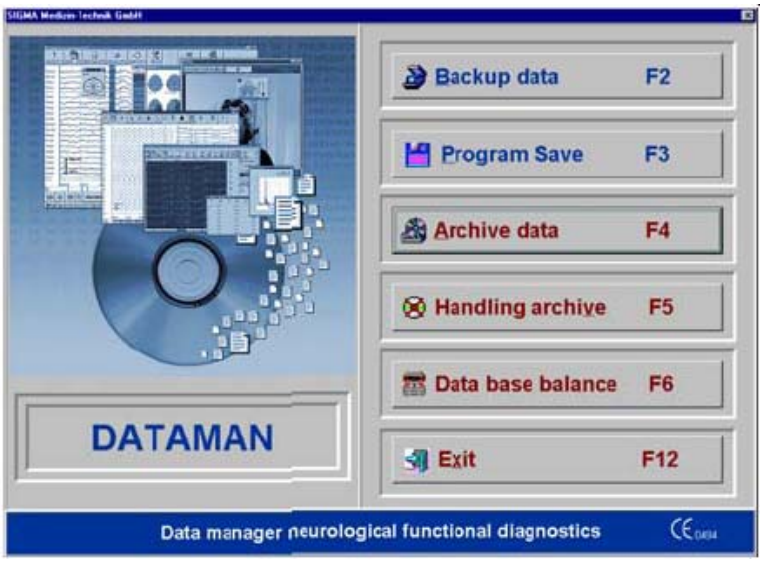


Caution!

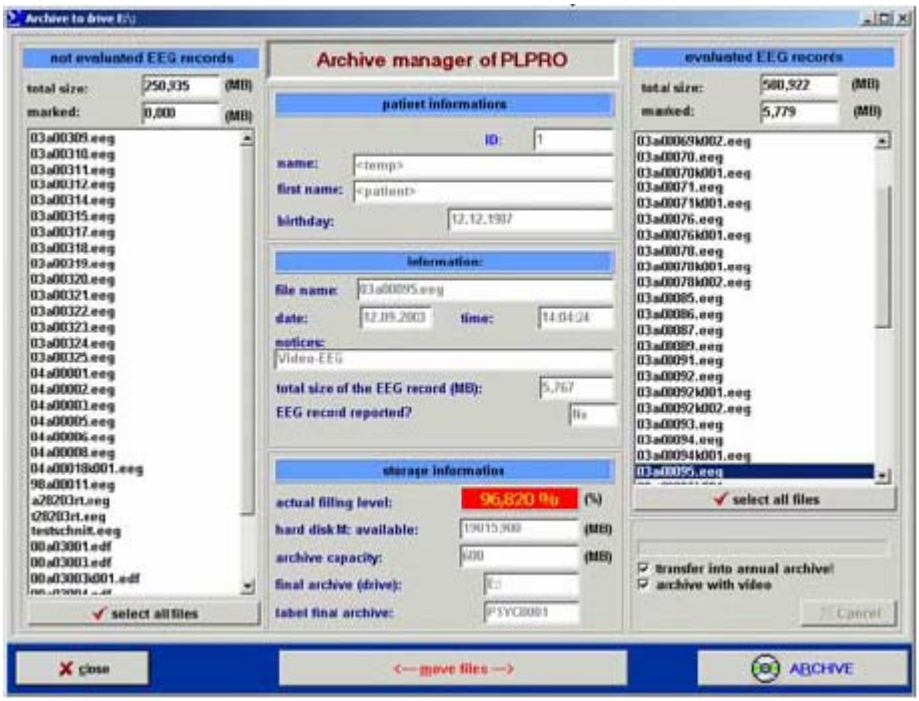
During the archiving procedure it is not allowed to work with the EEG system. No EEG recording or reviewing should be done in the entire network. All users have to leave the EEG program!

1. Please insert formatted DVD/CD-R.

2. In MANAGER mouseclick on ADMINISTRATION or press button F4. The program DATAMAN is running.



3. Mouseclick on Archive Data or press button F4. The archiving software is started.

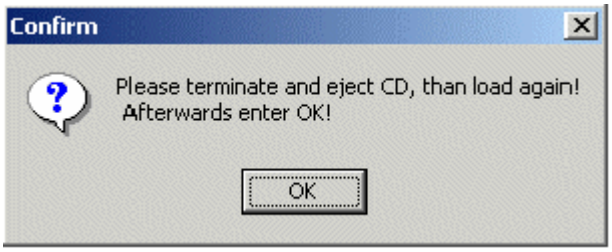


4. The actual filling level (see “storage information”) need to be below 100%.

If the filling level is higher, click to an EEG of the right side and move the file to the left column (“move file”).Go ahead with this procedure until the filling level is below 100%. With „close“ and restart of the archiving software, this shifting becomes valid. After archiving, this EEG´s need to be moved to the right column!

5. Start EEG archiving with click on „ARCHIVE“

6. After archiving on DVD/CD, the following message will appear:



Caution!

Dont press OK immediately.

7. First, please press „EJECT“ button at the DVD/CD drive.

In the following menu, please click to „This disc will be used on other computers or devices“ and „Protect disc so that it cannot be written to again” and “Always show this dialog when ejecting a disc”. Quit with “Eject”.

Drag-to-Disc Eject Options
Drag-to-Disc
How would you like Drag-to-Disc to prepare this disc for future use?
This disc will be used on this computer only.
This disc will be used on other computers or devices.
Protect disc so that it cannot be written to again
Always show this dialog when ejecting a disc
Eject
Advanced
Cancel
Help

8. Please insert DVD/CD again and only if the medium is readed (drive Stopps blinking) press buttom „OK“.

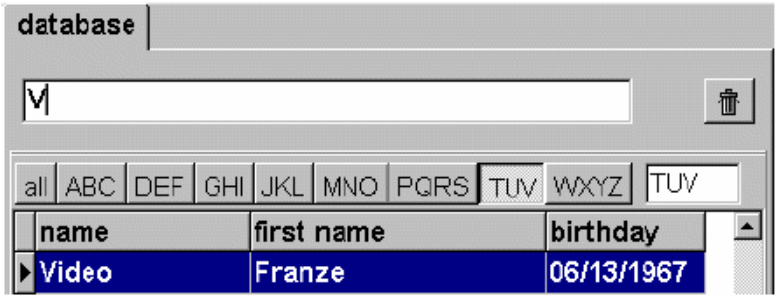
The DVD/CD is readed and compared with the EEG (archive) directory on the hard disc. All matched EEG´s are deleted from the hard disc. In case of any faulty EEG, it will be shown on the screen.

9. Eject DVD/CD and label.

Short User Manual EEG Recording

1. In MANAGER mouseclick on RECORDING
   or push button F2

2. Choose the name of the patient



If this patient is not existing in the database, you may input the name by pushing the buttom

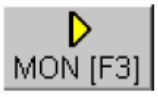
new patient

Name, first name, date of birth
need to be entered mandatory.
Enter the year with 4 digits, don't enter dots.

Confirm input with „Confirm changes"

3. Start EEG record with click on

or video EEG with click on VIDEO EEG.

4. Start monitoring with click on 

or buttom F3. EEG traces are shown on the screen but are not storaged.

5. Change amplitude of EEG traces with key ↑ or ↓ if necessary.

6. Measure the electrode impedances with or button F5.
Measurement can be also enabled directly at the headbox.
Values of all electrodes are shown on the screen.
green – very good | yellow – satisfying | red – bad | blue – measurement just running

It is shown simulataneously at the headbox wether the electrode impedances are above or below the threshold level e. g. 10 kOhm)

Be aware that bad electrode impedances may cause bad EEG records.

By clicking to the buttom “ready”, all measured impedance values are stored and the measurement is terminated.

7. By clicking to

or pushing the buttom F6, storaging of the EEG will be started.
8. Push the buttom 1 ... 0 on the keyboard or 1 ... 0 on the number block to insert your defined markers.
   Show or hide the marker list by pushing the buttom “M”
9. Change montages by clicking to MONT or push the button F7.

10. Start Hyperventilation by clicking to

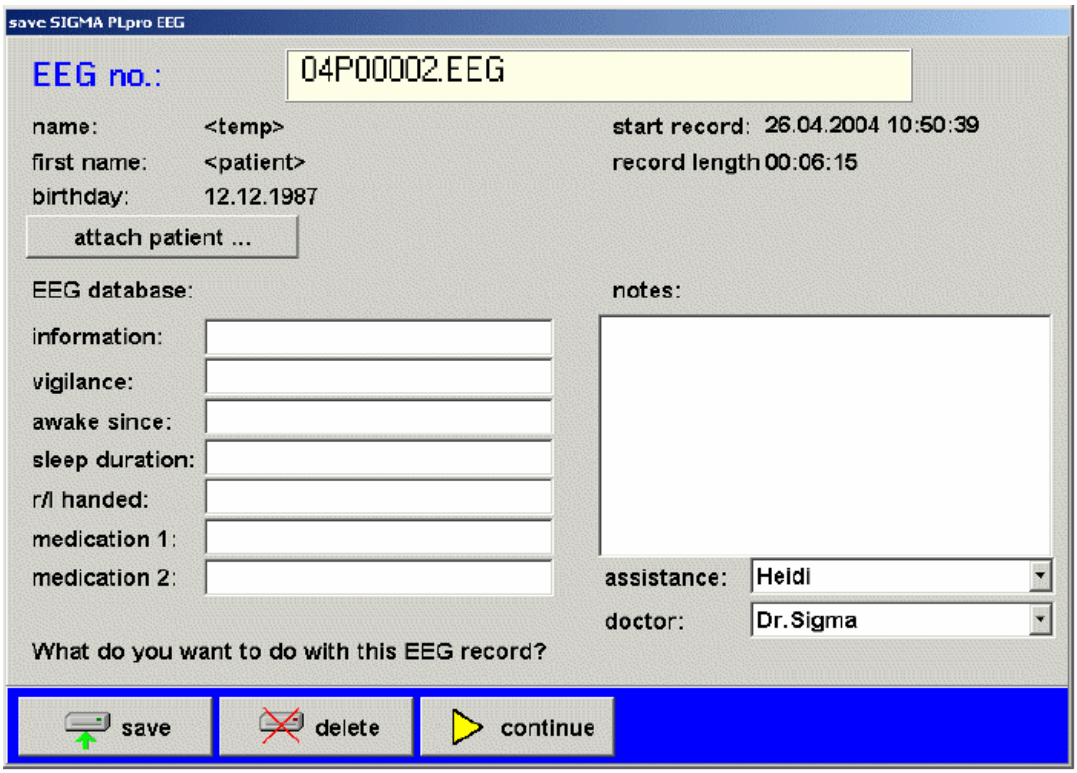
or push the buttom F8.
    All hyperventilation markers are inserted automatically.

11. Start Photic Stimulation by clicking to

or push the buttom F9.
    All stimulation markers are inserted automatically.

12. Stop recording by clicking to

or push the buttom F10.



Enter now EEG-related information, if neccessary. Choose EEG technician and doctor, if desired.

13. Click to „save" in order to save the EEG on the hard disc. EEG will be inserted into the data base.

14. Click to „continue" in order to continue with EEG recording, if necessary.

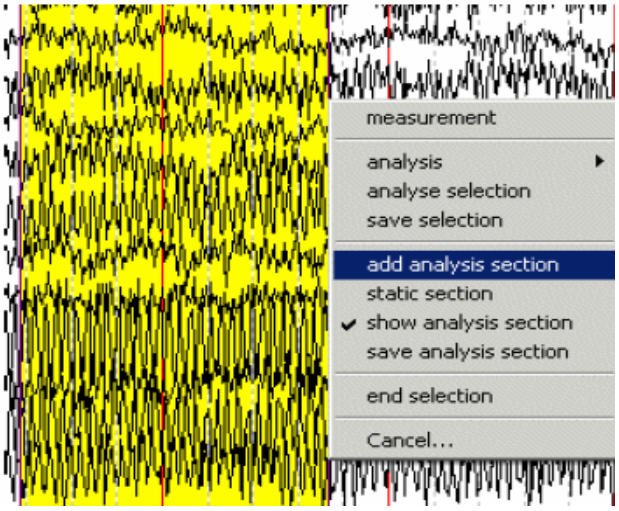
15. Click to NEW or push button F2 if you like to continue with the next patient. Click to END or push button F12 if you like to terminate the recording program.

Short User Manual EEG Scheduler

shortened into relevant sequences.

1. Defining segments

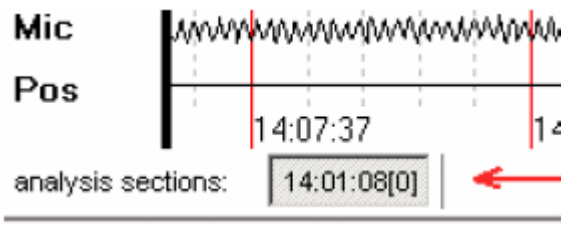
Mark the interested EEG segment (analyse section) with pushed left mouse button. Click to „add analyse section" which will be marked green.

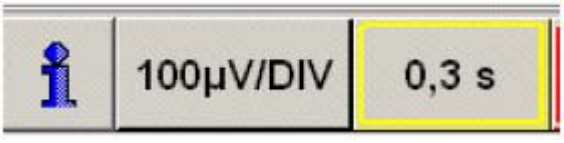


Several segments can be defined in this way.

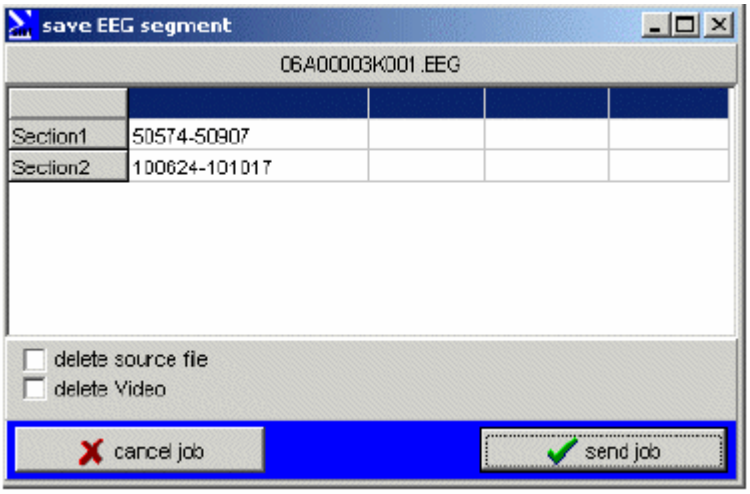
2. Storing the analyse sections

If all sections are marked, click to the first panel in the area „analysis sections".

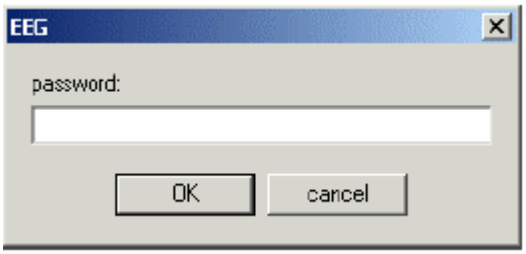




Then, click with the right mouse buttom into the EEG window and choose „safe analysis section“ . The sections will be composed to another so called child EEG.



If the EEG is recorded together with video, the video is cutted like this. There is the possibility to delete the original EEG and video. By clicking to the buttom “send job”, the cutting job will be sent to the database.

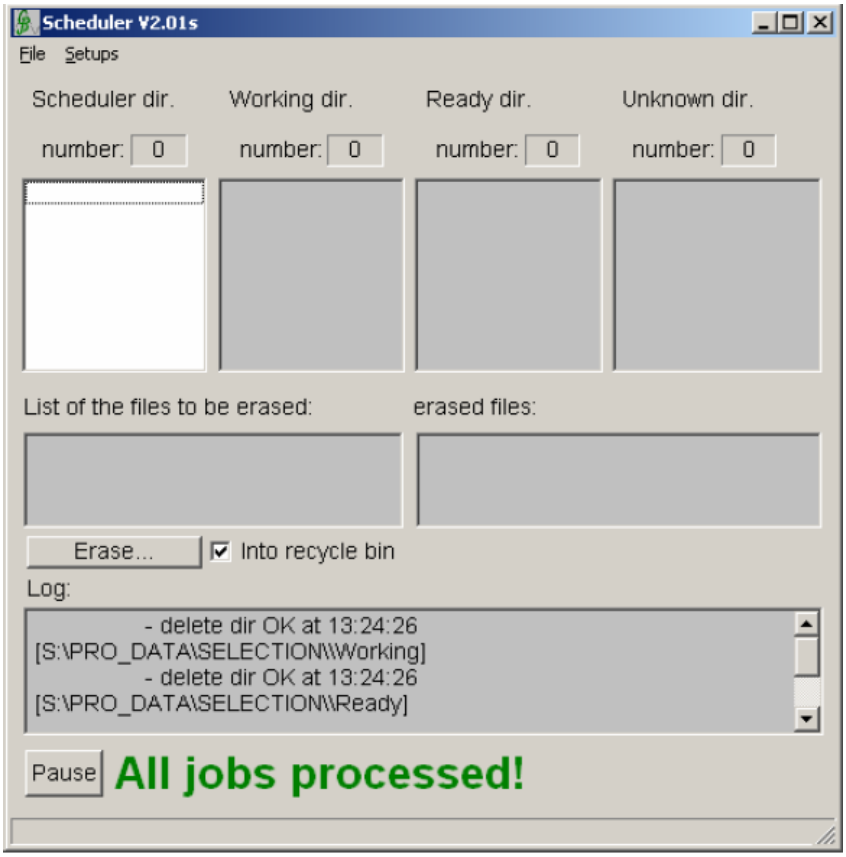


For safety reasons, a password is requested (ask your service engineer).

Caution! After finishing of the review program, the program SCHEDULER need to be started. Only this program cuts and deletes the EEG´s and videos.

3. Scheduler

This program composes a child EEG from the analysis sections. E. g. from the EEG with number 00A00025.eeg, a child EEG with the number 00A00025K001.eeg is generated and assigned to the same patient. Video files which are belonging to the EEG are cutted also.



By starting the SCHEDULER, all jobs are executed and new EEG files (childs) are written into the database. All cutting jobs are lokated in the "scheduler directory". After finishing the cutting jobs, all files are now in the "ready directory". The program can be terminated with "X".

If "delete original data" was choosen in the review software, you need to confirm this also in the scheduler software. Click to "Erase" and mark „into recycle bin".

Short User Manual: Scheduler

1. Start NEUROWERK CENTER

2. Patient and EEG selection
Choose a patient by entering the patient's name and "search"

SEARCH F7 Schöne

Name	Surname	Birthday	Pat.-nr.
<temporarer>	<Patient>	02.03.1968	
Demo	EMG	15.08.2007	
Dummy	Test	09.09.1999	
Krank	Hans	12.12.1912	
Neubauer	Lars	05.07.1988	
Schöne	Heidi	12.12.1912	

Double click to the requested EEG on the right hand site of the display.

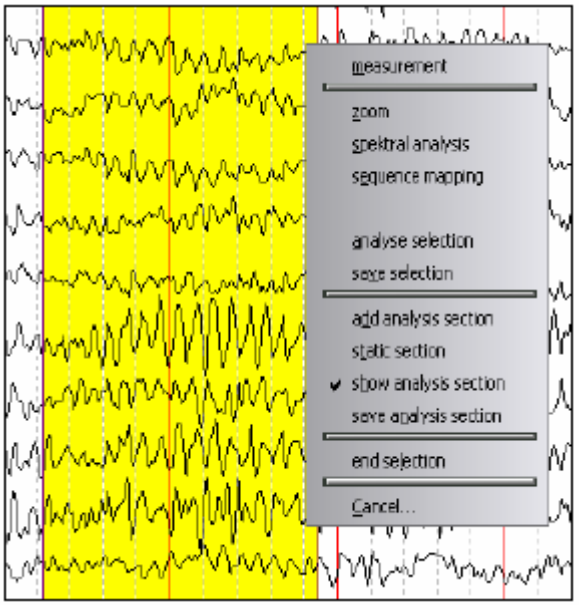
FILTER Pos All data for act. patient!

R	A	Record nr.	Date of rec.	Method	Information	Archive nr.
Y	Y	03A00000.EEG				SIGM2
N	N	09A00002.EEG	09.01.2009 09:3	EEG, Erwachs		
Y	Y	98A00016.EEG				SIGM2

Defining/ deleting sections

Mark the interested EEG segment (analyse section) with pushed left mouse button. Click to „add analyse section“ which will be marked green.

Do a left click to the mark of the section (the little flag on the upper site of the section) then a right click and “delete event mark”.



Save section

Do a right click into the EEG then a left click on „Save analysis section" if one of the sections is selected.

If no section is selected mark a new little section with pushed left mouse button. Then do a left click on "save analysis section". The new little section will not be saved.

If the EEG is recorded together with a video, the video is also cutted. Original EEG an video can be deleted with the help of a service password.

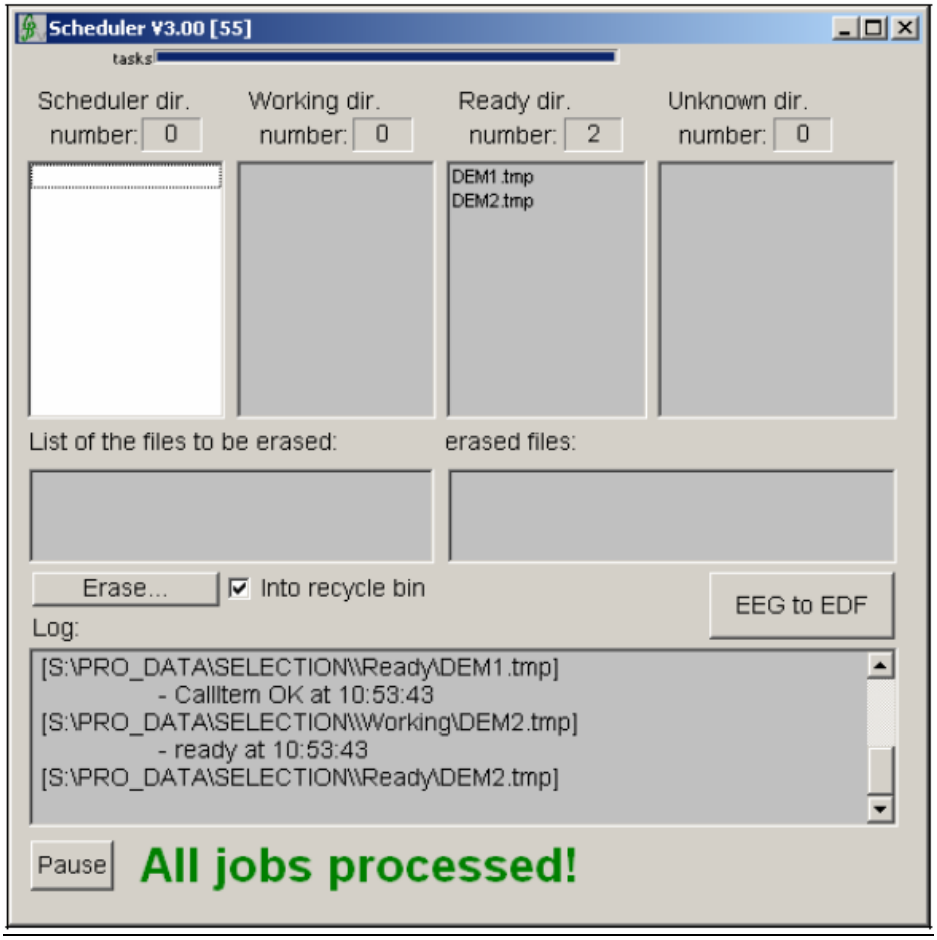
By clicking to the button "send job", the cutting job will be sent to the database.

ATTENTION The program SCHEDULER need to be started. Only this program cuts and deletes the EEGs and videos.

After sending the cutting job close the reviewing program and also the database with "END" to enter the NEUROWERK CENTER .

5. Scheduler

Activating the SCHEDULER by left click.



By starting the SCHEDULER, all jobs are executed and new EEG files (child EEGs) are written into the database.

The erase of the original files must be confirmed again.

After cutting all jobs the SCHEDULER can be closed by „x“ in the right upper corner.